

SEQUENCE LISTING

09/762568
JC05 Rec'd PCT/PTO 06 FEB 2001

<110> Nippon Institute for Biological Science

<120> novel plasmid vector

<130> PCTF0001-0

<150> JP, Japanese Patent Application No. Hei 11-158351

<151> 1999-6-4

<160> 13

<210> 1

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 3' region of U3 and VspI restriction enzyme site to multiply RSV LTR.

<400> 1

ggcattaatg tagtccttatg caatactcct g 31

<210> 2

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' non coding region of p19 gene, HincII, EcoRV and BglII restriction enzyme site to multiply RSV LTR and downstream region of LTR.

<400> 2

gttaacgata tcagatctgc ttgatccacc gggcgaccag 40

<210> 3

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' region of RSV integrase gene and BamHI restriction enzyme site to multiply RSV integrase gene.

<400> 3

ttggatccat gcccttgaga gaggctaaag atcttc 36

<210> 4

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 3' region of RSV integrase gene, polyA signal to multiply RSV integrase gene.

<400> 4

tttatttttaa ctctcgttgg cagcaagggt gtc 33

<210> 5

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' region of U5 and VspI restriction enzyme site to multiply RSV LTR.

<400> 5

ggcattaatg aagccttctg cttcattca 29

<210> 6

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 3' region of RSV integrase gene, polyA signal, nuclear localization signal of SV40 large T antigen to multiply RSV integrase gene.

<400> 6

tttatttttaa accttccctct tcttcttagg actctcgttg gcagcaagggt 51

<210> 7
<211> 858
<212> DNA
<213> Rous sarcoma virus

<220>
<221> TATA signal
<222> (84)... (90)
<221> polyA signal
<222> (107)... (112)
<221> TATA signal
<222> (431)... (437)
<221> polyA signal
<222> (454)... (459)
<223> A part of circular form of RSV DNA, tandem repeat LTRs and adjacent non coding region.

<400> 7
acgacgtgc cttattagga aggcaacaga cgggtctaac acggattgga cgaaccactg 60
aatccgcat tgcggagata ttgtatttaa gtgcctagct cgatacaata aacgccattt 120
taccattcac cacattgggtg tgcacctggg ttgatggctg gaccgttgat tccctgacga 180
ctacgagcac atgcatgaag cagaaggcctt cattaatgta gtcttatgca atactcctgt 240
agtcttgcaa catgcttatg taacgatgag ttagcaacat gccttacaag gagagaaaag 300
gcaccgtgca cgacgattgg tggaagtaag gtggtatgat cgtaggtacg atcgtgcctt 360
attaggaagg caacagacgg gtctaacacg gattggacga accactgaat tccgcattgc 420
ggagatattg tatttaagtg cctagctcga tacaataaac gccattttac cattcaccac 480
attgggtgigc acctgggttg atggctggac cgttgattcc ctgacgacta cgagcacatg 540
catgaagcag aaggcttcat ttggtagacc cgacgtgatc gtaggggaat agtggtcggc 600
cacagacggc gtggcgatcc tgcctcctc cgtctcgctt attcggggag cggacgatga 660

ccctagtaga gggggctgcg gcttaggagg gcagaagctg agtggcgtcg gagggagctc 720
 tactgcaggg agcccagata ccctaccgag aactcagaga gtcgttggaa gacgggaaga 780
 aagccccgacg actgagcggg ccaccccagg cgtgattccg gttgcctcgc gtgaccttg 840
 tcgcccgggtg gatcaagc 858

<210> 8

<211> 972

<212> DNA

<213> Rous sarcoma virus

<220>

<221> CDS

<222> 1...972

/note="precursor integrase or p36 protein"

<221> CDS

<222> 1...858

/note="mature integrase or p32 protein"

<400> 8

cccttgagag aggctaaaga tcttcatacc gctctccata ttggaccccg cgcgctatcc 60
 aaagcgtgta atatatctat gcagcaggct agggaggttg ttcagacctg cccgcattgt 120
 aattcagccc ctgcgttggg ggccggagta aaccctaggg gtttgggacc cctacagata 180
 tggcagacag actttacgct tgagcctaga atggccccc gttcctggct cgctgttact 240
 gtggacaccg cctcatcagc gatagtcgta actcagcatg gccgtgtcac atcggttgct 300
 gtacaacatc attggggccac ggctatcgcc gttttgggaa gaccaaaggc cataaaaaca 360
 gataacgggt cctgcttcac gtctaaatcc acgcgagagt ggctcgcgag atgggggata 420
 gcacacacca ccgggattcc gggtaattcc cagggtcaag ctatggtaga gcggggccaac 480
 cggctcctga aagataggat ccgtgtgctt gcggaggggg acggctttat gaaaagaatc 540
 cccaccagca aacaggggga actattagcc aaggcaatgt atgccctcaa tcactttgag 600

cgtgggtgaaa acacgaaaac accgatacaa aaacactgga gacctaccgt tccttacagaa 660
 ggacccccgg ttaaaatacg aatagagaca ggggagtgga aaaaaggatg gaacgtgctg 720
 gtctggggac gaggttatgc cgctgtgaaa aacagggaca ctgataaggt tatttgggta 780
 ccctctcgaa aagttaaacc ggacatcacc caaaaggatg aggtgactaa gaaagatgag 840
 gcgagccctc tttttgcagg catttctgac tggataccct ggggagacaa gcaagaagga 900
 ctccaaggag aaaccgctag caacaagcaa gaaagaccg gagaagacac ccttgctgcc 960
 aacgagagtt aa 972

<210> 9

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' region of GFP gene and a part of NheI restriction enzyme site to multiply GFP gene.

<400> 9

ctagcgctac cggtcgccac c 21

<210> 10

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including antisense sequence of GFP ORF to multiply a part of GFP gene.

<400> 10

gttgccgtcc tccttgaagt 20

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including U5 region LTR sequence to multiply a part of integrated plasmid vector.

<400> 11

ttgggtgtgca cctgggttga t 21

<210> 12

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' end of GFP ORF sequence to multiply a part of GFP gene.

<400> 12

atgggtgagca agggcgagga gctgttcacc ggggtg 36

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including a part of GFP ORF sequence to

multiply a part of GFP gene.

<400> 13

gtcgagctgg acggcgacgt 20